

### Basic Stoichiometry Post-Lab Homework Exercises

1. Load the "Reactants, Products, and Leftovers" simulation and work through each of the levels of the Game! At <http://phet.colorado.edu/> or googling "phet." You may have to download or update Java on your computer.

**Show your work for all calculations. Remember: Labels, units, sig figs and cancellation!**

2. For the reaction  $P_4 + 6Cl_2 \rightarrow 4PCl_3$ , determine how many moles of chlorine  $Cl_2$  would be needed to react with 4.0 moles of phosphorus  $P_4$  to entirely use up all the phosphorus. 4) \_\_\_\_\_

3. If 3.00 moles of  $P_4$  reacted with 22.0 moles  $Cl_2$  according to the above reaction, determine:

- a) How many moles  $PCl_3$  are produced a) \_\_\_\_\_
- b) How many moles of  $P_4$  are left in excess after the reaction (if any) b) \_\_\_\_\_
- c) How many moles of  $Cl_2$  are left in excess after the reaction (if any) c) \_\_\_\_\_

In reality, reactants don't have to react in perfect whole-numbers of moles. In a two-reactant synthesis reaction, usually **one reactant gets entirely used up (and determines how much product is made)**, even if that means using fractions of a mole of reactant. For instance, when solid, metallic aluminum  $Al$  and red, liquid bromine  $Br_2$  are brought together, they make a white solid according to the reaction  $2Al + 3Br_2 \rightarrow 2AlBr_3$ . If 5.0 moles of aluminum  $Al$  was reacted with 10 moles bromine  $Br_2$ , all five moles of aluminum would react, with only 7.5 moles bromine. (2:3 mole ratio) This would produce only 5.0 moles of  $AlBr_3$ , leaving 2.5 moles of excess  $Br_2$  behind.

5. Now assume 3.0 moles  $Al$  and 4.0 moles  $Br_2$  react.

- a) How much (in moles)  $AlBr_3$  gets produced? a) \_\_\_\_\_
- b) Which chemical must be the *excess reactant*? b) \_\_\_\_\_
- c) Which chemical is the *limiting reactant*? c) \_\_\_\_\_
- d) If all the limiting reactant gets used up, how much of the excess reactant is left? d) \_\_\_\_\_

# Basic Stoichiometry Post Lab Homework Exercises

## Answer Key

**CO Houle**



**Basic Stoichiometry Post Lab Homework Exercises Answer Key:**

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web feb 27 2023 jawab segitiga sama kaki memiliki dua sudut yang besarnya sama jika hanya ditulis 1 besar sudut dengan besar 70 maka sudut yang lain memiliki besar sudut 70 meski tidak disebutkan atau ditulis pada gambar sehingga dapat kita tulis sudut cba sudut bca sudut bac 180 sudut cba sudut bca sudut bac 180

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web menghitung segitiga siku siku segitiga sisi segitiga sama kaki dan segitiga sama sisi masukkan 3 nilai yang berbeda misalnya 2 sisi dan 1 sudut atau 3 sisi dan klik tombol menghitung untuk menghitung sisi lain sudut dan luas segitiga

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web rumus mencari sudut segitiga sama kaki perlu kamu ketahui jumlah besar ketiga sudut yang ada pada sebuah segitiga adalah 180 jika ada sebuah segitiga sama kaki yang salah satu sudut pada alasnya sudah diketahui maka rumus untuk mencari sudut lainnya adalah  $180 - 2 \times$  salah satu besar sudut alas

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web jul 22 2022 1 jika diketahui dalam segitiga sama kaki abc sudut a adalah sudut puncak dengan nilai 50 derajat hitunglah 2 sudut yang lainnya jawaban sudut a terletak di puncak sehingga sudut b dan c merupakan sudut yang sama besar misal sudut b sudut c  $\times$  sudut a sudut b sudut c  $180 - \text{sudut a} \times 2$   $180 - 50 \times 2 = 180 - 100 = 80$

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web rumus untuk menemukan ukuran total semua sudut dalam poligon adalah  $n - 2 \times 180$  dalam kasus ini n adalah jumlah sisi yang dimiliki poligon total ukuran sudut dalam beberapa poligon umum adalah sebagai berikut 2 total sudut dalam segitiga poligon bersisi 3 adalah 180 derajat

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web cara menentukan sudut dalam pada segitigamateri terkait sudut pengertian sudut bagian bagian sudut jenis jenis sudut youtu be sftwzxqmop8cara menguk

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web aug 12 2022 segitiga siku siku memiliki banyak rumus yang berguna untuk digunakan anda dapat menggunakan salah satu rumus di bawah ini untuk menghitung sudut sisi luas atau keliling segitiga siku siku kami akan merujuk segitiga di

**4 cara untuk menghitung luas segitiga wikihow** - Feb 27 2022

web cara yang paling sering digunakan untuk mencari luas segitiga adalah membagi hasil perkalian alas dan tingginya menjadi dua namun ada juga rumus lain yang dapat digunakan bergantung pada data yang diketahui menggunakan data sisi miring dan sudut segitiga misalnya dapat memungkinkan anda menghitung luas segitiga tanpa perlu

*rumus menghitung luas dan keliling segitiga rumusrumus com* - Feb 10 2023

web jul 31 2023 rumus segitiga pengertian bangun datar segitiga adlh bentuk suatu gambar yg memiliki tiga buah sisi berupa garis lurus dan tiga sudut menurut ilmuwan matematika euclid yg menemukan bangun datar segi tiga ini mengatakan bahwa jumlah ketiga sudut di suatu segitiga pd bidang datar ialah sebesar 180 derajat

**kalkulator luas segitiga contoh dan rumus pure calculators** - Dec 28 2021

web aug 23 2021 luas segitiga menurut tinggi dan alasnya triangle area height base  $2 \times \text{luas segitiga}$  juga dimungkinkan untuk menghitung berbagai cara dengan sudut dan panjang segitiga luas segitiga dengan tiga sisinya triangle area  $\frac{1}{2} a b c$   $\frac{1}{2} a b c$   $\frac{1}{2} a b c$  luas segitiga dengan dua sisi dan sudut di antara